Chem-Impex International Inc.

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SAFETY DATA SHEET

SECTION 1. CHEMICAL IDENTIFICATION

CATALOG #:	02069
NAME:	Ethylene glycol
SYNONYMS:	1,2-Ethanediol
24 HOUR EMERGENCY TELEPHONE:	(800) 535-5053(USA) 352-323-3500 (INTERNATIONAL)
TO REQUEST AN MSDS:	(800) 869-9290
CUSTOMER SERVICE:	(630) 766-2112

SECTION 2. HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS) ACUTE TOXICITY, ORAL (CATEGORY 4), H302 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE, ORAL (CATEGORY 2), KIDNEY, H373 FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE SECTION 16.

GHS LABEL E	LEMENTS, I	NCLU	DING I	PRECAUT	TONARY	STATEMENTS	S
PICTOGRAM		$\mathbf{\Lambda}$	~				

PICTOGRAM	
SIGNAL WORD	WARNING
HAZARD STATEMENT(5)
H302	HARMFUL IF SWALLOWED.
H373	MAY CAUSE DAMAGE TO ORGANS (KIDNEY) THROUGH PROLONGED OR REPEATED EXPOSURE IF SWALLOWED.
PRECAUTIONARY STAT	TEMENT(S)
P260	DO NOT BREATHE DUST/ FUME/ GAS/ MIST/ VAPOURS/ SPRAY.
P264	WASH SKIN THOROUGHLY AFTER HANDLING.
P270	DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT.
P301 + P312 + P330	IF SWALLOWED: CALL A POISON CENTER/DOCTOR IF YOU FEEL UNWELL. RINSE MOUTH.
P314	GET MEDICAL ADVICE/ ATTENTION IF YOU FEEL UNWELL.
P501	DISPOSE OF CONTENTS/ CONTAINER TO AN APPROVED
	WASTE DISPOSAL PLANT.
HAZARDS NOT OTHERWISE CLASSIFIED (HNOC) OR NOT COVERED	NONE

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

MF:	$C_2H_6O_2$
MW:	62.07
CAS-NO.	107-21-1

BY GHS

PURITY: $\geq 99\%$ (GC)

HAZARDOUS COMPONENTS

COMPONENT	CLASSIFICATION	CONCENTRATION	
Ethylene glycol			
	ACUTE TOX. 4; STOT RE 2;	90 - 100 %	
	H302, H373		
FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE			
SECTION 16.			

SECTION 4. FIRST-AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

GENERAL ADVICE	CONSULT A PHYSICIAN. SHOW THIS SAFETY DATA
	SHEET TO THE DOCTOR IN ATTENDANCE. MOVE OUT OF DANGEROUS AREA.

IF INHALED IF BREATHED IN, MOVE PERSON INTO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. CONSULT A PHYSICIAN.

- IN CASE OF SKINWASH OFF WITH SOAP AND PLENTY OF WATER.CONTACTCONSULT A PHYSICIAN.
- **IN CASE OF EYE** FLUSH EYES WITH WATER AS A PRECAUTION. **CONTACT**
- IF SWALLOWED NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. RINSE MOUTH WITH WATER. CONSULT A PHYSICIAN.

MOST IMPORTANTTHE MOST IMPORTANT KNOWN SYMPTOMS ANDSYMPTOMS ANDEFFECTS ARE DESCRIBED IN THE LABELLING (SEEEFFECTS, BOTH ACUTESECTION 2.2) AND/OR IN SECTION 11AND DELAYEDSection 2.2) AND/OR IN SECTION 11

NO DATA AVAILABLE

SECTION 5. FIRE AND EXPLOSION DATA

EXTINGUISHING MEDIA

INDICATION OF ANY

NEEDED

IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT

SUITABLE	USE WATER SPRAY, ALCOHOL-RESISTANT FOAM, DRY
EXTINGUISHING MEDIA	CHEMICAL OR CARBON DIOXIDE.
SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE	NO DATA AVAILABLE
ADVICE FOR	WEAR SELF CONTAINED BREATHING APPARATUS FOR
FIREFIGHTERS	FIRE FIGHTING IF NECESSARY.

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES	USE PERSONAL PROTECTIVE EQUIPMENT. AVOID BREATHING VAPOURS, MIST OR GAS. ENSURE ADEQUATE VENTILATION. FOR PERSONAL PROTECTION SEE SECTION 8.
ENVIRONMENTAL PRECAUTIONS	DO NOT LET PRODUCT ENTER DRAINS.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP	SOAK UP WITH INERT ABSORBENT MATERIAL AND DISPOSE OF AS HAZARDOUS WASTE. KEEP IN SUITABLE, CLOSED CONTAINERS FOR DISPOSAL.
REFERENCE TO OTHER SECTIONS	FOR DISPOSAL SEE SECTION 13.

SECTION 7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING	AVOID CONTACT WITH SKIN AND EYES. AVOID INHALATION OF VAPOUR OR MIST. FOR PRECAUTIONS SEE SECTION 2.2.
CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES	KEEP CONTAINER TIGHTLY CLOSED IN A DRY AND WELL-VENTILATED PLACE. CONTAINERS WHICH ARE OPENED MUST BE CAREFULLY RESEALED AND KEPT UPRIGHT TO PREVENT LEAKAGE.
	Store at RT
	HYGROSCOPIC STORAGE CLASS (TRGS 510): 10: COMBUSTIBLE LIQUIDS
SPECIFIC END USE(S)	APART FROM THE USES MENTIONED IN SECTION 1.2 NO OTHER SPECIFIC USES ARE STIPULATED

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

COMPONENT	CAS-NO.	VALUE	CONTROL	BASIS
			PARAMETERS	
ETHYLENE	107-21-1	TWA	25 PPM	USA. ACGIH
GLYCOL				THRESHOLD
				LIMIT VALUES
				(TLV)
	REMARKS	UPPER RESP	PIRATORY TRACT IR	RITATION
		2017 ADOPT	ION	
		NOT CLASS	IFIABLE AS A HUMA	N CARCINOGEN
		STEL	50 PPM	USA. ACGIH
				THRESHOLD
				LIMIT VALUES
				(TLV)
		UPPER RESI	PIRATORY TRACT IR	RITATION
		2017 ADOPT	ION	
		NOT CLASS	IFIABLE AS A HUMA	N CARCINOGEN
		STEL	10 MG/M3	USA. ACGIH
				THRESHOLD
				LIMIT VALUES
				(TLV)
			PIRATORY TRACT IR	RITATION
		2017 ADOPT		
			IFIABLE AS A HUMA	
			DIX D - SUBSTANCES	S WITH NO
		ESTABLISH		
		С	40 PPM	CALIFORNIA
			100 MG/M3	PERMISSIBLE
				EXPOSURE
				LIMITS FOR
				CHEMICAL
				CONTAMINANTS
				(TITLE 8,
				ARTICLE 107)

PREDICTED NO EFFECT CONCENTRATION (PNEC)

COMPARTMENT	VALUE
SOIL	1.53 MG/KG
MARINE WATER	1 MG/L
FRESH WATER	10 MG/L
MARINE SEDIMENT	3.7 MG/KG
FRESH WATER SEDIMENT	37 MG/KG
SEWAGE TREATMENT PLANT	199.5 MG/L
AQUATIC INTERMITTENT RELEASE	10 MG/L

EXPOSURE CONTROLS

APPROPRIATE	HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL
ENGINEERING	HYGIENE AND SAFETY PRACTICE. WASH HANDS
CONTROLS	BEFORE BREAKS AND AT THE END OF WORKDAY.

PERSONAL PROTECTIVE EQUIPMENT

- **EYE/FACE PROTECTION** FACE SHIELD AND SAFETY GLASSES USE EQUIPMENT FOR EYE PROTECTION TESTED AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH (US) OR EN 166(EU).
- SKIN PROTECTIONHANDLE WITH GLOVES. GLOVES MUST BE INSPECTED
PRIOR TO USE. USE PROPER GLOVE REMOVAL
TECHNIQUE (WITHOUT TOUCHING GLOVE''S OUTER
SURFACE) TO AVOID SKIN CONTACT WITH THIS
PRODUCT. DISPOSE OF CONTAMINATED GLOVES AFTER
USE IN ACCORDANCE WITH APPLICABLE LAWS AND
GOOD LABORATORY PRACTICES. WASH AND DRY
HANDS.

FULL CONTACT MATERIAL: NITRILE RUBBER MINIMUM LAYER THICKNESS: 0.11 MM BREAK THROUGH TIME: 480 MIN MATERIAL TESTED:DERMATRIL (KCL 740, SIZE M)

SPLASH CONTACT MATERIAL: NITRILE RUBBER MINIMUM LAYER THICKNESS: 0.11 MM BREAK THROUGH TIME: 480 MIN MATERIAL TESTED:DERMATRIL (KCL 740, SIZE M)

IF USED IN SOLUTION, OR MIXED WITH OTHER SUBSTANCES, AND UNDER CONDITIONS WHICH DIFFER FROM EN 374, CONTACT THE SUPPLIER OF THE CE APPROVED GLOVES. THIS RECOMMENDATION IS ADVISORY ONLY AND MUST BE EVALUATED BY AN INDUSTRIAL HYGIENIST AND SAFETY OFFICER FAMILIAR WITH THE SPECIFIC SITUATION OF ANTICIPATED USE BY OUR CUSTOMERS. IT SHOULD NOT BE CONSTRUED AS OFFERING AN APPROVAL FOR ANY SPECIFIC USE SCENARIO.

BODY PROTECTIONCOMPLETE SUIT PROTECTING AGAINST CHEMICALS,
THE TYPE OF PROTECTIVE EQUIPMENT MUST BE
SELECTED ACCORDING TO THE CONCENTRATION AND
AMOUNT OF THE DANGEROUS SUBSTANCE AT THE
SPECIFIC WORKPLACE.

RESPIRATORY PROTECTION	WHERE RISK ASSESSMENT SHOWS AIR-PURIFYING RESPIRATORS ARE APPROPRIATE USE A FULL-FACE RESPIRATOR WITH MULTIPURPOSE COMBINATION (US) OR TYPE ABEK (EN 14387) RESPIRATOR CARTRIDGES AS A BACKUP TO ENGINEERING CONTROLS. IF THE RESPIRATOR IS THE SOLE MEANS OF PROTECTION, USE A FULL-FACE SUPPLIED AIR RESPIRATOR. USE RESPIRATORS AND COMPONENTS TESTED AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH (US) OR CEN (EU).
CONTROL OF ENVIRONMENTAL EXPOSURE	DO NOT LET PRODUCT ENTER DRAINS.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Clear liquid
ODOUR	NO DATA AVAILABLE
ODOUR THRESHOLD	NO DATA AVAILABLE
PH	NO DATA AVAILABLE
MELTING	
POINT/FREEZING POINT	
INITIAL BOILING POINT	
AND BOILING RANGE	
FLASH POINT	
EVAPORATION RATE	1
FLAMMABILITY (SOLID,	NO DATA AVAILABLE
GAS)	
UPPER/LOWER	UPPER EXPLOSION LIMIT: 15.3 %(V)
FLAMMABILITY OR	LOWER EXPLOSION LIMIT: 3.2 %(V)
EXPLOSIVE LIMITS	
VAPOUR PRESSURE	0.11 HPA (0.08 MMHG) AT 20 C
VAPOUR DENSITY	2.14 - (AIR = 1.0)
RELATIVE DENSITY	1.11
WATER SOLUBILITY	COMPLETELY MISCIBLESOLUBLE
PARTITION COEFFICIENT:	LOG POW: -1.36
N- OCTANOL/WATER	
AUTO-IGNITION	400 CAUTO-FLAMMABILITY
TEMPERATURE	
DECOMPOSITION	NO DATA AVAILABLE
TEMPERATURE	
VISCOSITY	NO DATA AVAILABLE
EXPLOSIVE PROPERTIES	NO DATA AVAILABLE
OXIDIZING PROPERTIES	NO DATA AVAILABLE
OTHER SAFETY	
INFORMATION	
RELATIVE VAPOUR	2.14 - (AIR = 1.0)
DENSITY	

SECTION 10. STABILITY AND REACTIVITY

REACTIVITY	NO DATA AVAILABLE
CHEMICAL STABILITY	STABLE UNDER RECOMMENDED STORAGE CONDITIONS.
POSSIBILITY OF HAZARDOUS REACTIONS	NO DATA AVAILABLE
CONDITIONS TO AVOID	NO DATA AVAILABLE
INCOMPATIBLE MATERIALS	STRONG ACIDS, STRONG OXIDIZING AGENTS, STRONG BASES, ALDEHYDES, ALUMINUM
HAZARDOUS DECOMPOSITION PRODUCTS	HAZARDOUS DECOMPOSITION PRODUCTS FORMED UNDER FIRE CONDITIONS CARBON OXIDES IN THE EVENT OF FIRE: SEE SECTION 5

SECTION 11. TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY	LD50 ORAL - RAT - 4,700 MG/KG
	INHALATION: NO DATA AVAILABLE
	LD50 DERMAL - RABBIT - 10,626 MG/KG
	NO DATA AVAILABLE
SKIN CORROSION/IRRITATION	SKIN - RABBIT RESULT: NO SKIN IRRITATION
SERIOUS EYE DAMAGE/EYE IRRITATION	EYES - RABBIT RESULT: MILD EYE IRRITATION - 24 H
RESPIRATORY OR SKIN SENSITISATION	NO DATA AVAILABLE
GERM CELL	NO DATA AVAILABLE

MUTAGENICITY

CARCINOGENICITY	THIS PRODUCT IS OR CONTAINS A COMPONENT THAT IS PROBABLY NOT CARCINOGENIC BASED ON ITS IARC, ACGIH, NTP, OR EPA CLASSIFICATION.
IARC:	NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS PROBABLE, POSSIBLE OR CONFIRMED HUMAN CARCINOGEN BY IARC.
NTP:	NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A KNOWN OR ANTICIPATED CARCINOGEN BY NTP
OSHA:	NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS ON OSHA S LIST OF REGULATED CARCINOGENS.
REPRODUCTIVE TOXICITY	LABORATORY EXPERIMENTS HAVE SHOWN TERATOGENIC EFFECTS.
	OVEREXPOSURE MAY CAUSE REPRODUCTIVE DISORDER(S) BASED ON TESTS WITH LABORATORY ANIMALS.
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	NO DATA AVAILABLE
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	ORAL - MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE KIDNEY

ASPIRATION HAZARD NO DATA AVAILABLE

ADDITIONAL INFORMATION RTECS: KW2975000

WHEN INGESTED EARLY SYMPTOMS MIMIC ALCOHOL INEBRIATION AND ARE FOLLOWED BY NAUSEA, VOMITING, ABDOMINAL PAIN, WEAKNESS, MUSCLE TENDERNESS, RESPIRATORY FAILURE, CONVULSIONS, CARDIOVASCULAR COLLAPSE, PULMONARY EDEMA, HYPOCALCEMIC TETANY, AND SEVERE METABOLIC ACIDOSIS. WITHOUT TREATMENT, DEATH MAY OCCUR IN 8 TO 24 HOURS. VICTIMS WHO SURVIVE THE INITIAL TOXICITY PERIOD USUALLY DEVELOP RENAL FAILURE ALONG WITH BRAIN AND LIVER DAMAGE., EXPOSURE TO AND/OR CONSUMPTION OF ALCOHOL MAY INCREASE TOXIC EFFECTS.

CENTRAL NERVOUS SYSTEM - IRREGULARITIES - BASED ON HUMAN EVIDENCE

SECTION 12. ECOLOGICAL INFORMATION

TOXICITY TOXICITY TO FISH	LC50 - ONCORHYNCHUS MYKISS (RAINBOW TROUT) - 18,500 MG/L - 96 H
	LC50 - LEUCISCUS IDUS (GOLDEN ORFE) - > 10,000 MG/L - 48 H
	NOEC - PIMEPHALES PROMELAS (FATHEAD MINNOW) - 32,000 MG/L - 7 D
	NOEC - PIMEPHALES PROMELAS (FATHEAD MINNOW) - 39,140 MG/L - 96 H
TOXICITY TO DAPHNIA AND OTHER AQUATIC	EC50 - DAPHNIA MAGNA (WATER FLEA) - 74,000 MG/L - 24 H
INVERTEBRATES	NOEC - DAPHNIA (WATER FLEA) - 24,000 MG/L - 48 H
	LC50 - DAPHNIA MAGNA (WATER FLEA) - 41,000 MG/L 48 H
PERSISTENCE AND	
DEGRADABILITY RATIO BOD/THBOD	0.78 %
BIOACCUMULATIVE POTENTIAL	DOES NOT BIOACCUMULATE.
BIOACCUMULATION	OTHER FISH - 61 D - 50 MG/L
	BIOCONCENTRATION FACTOR (BCF): 0.60
MOBILITY IN SOIL	NO DATA AVAILABLE
RESULTS OF PBT AND VPVB ASSESSMENT	PBT/VPVB ASSESSMENT NOT AVAILABLE AS CHEMICAL SAFETY ASSESSMENT NOT REQUIRED/NOT CONDUCTED

OTHER ADVERSE EFFECTS NO DATA AVAILABLE

SECTION 13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

PRODUCT	OFFER SURPLUS AND NON-RECYCLABLE SOLUTIONS TO A LICENSED DISPOSAL COMPANY. CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF THIS MATERIAL. DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN
	AFTERBURNER AND SCRUBBER.
CONTAMINATED PACKAGING	DISPOSE OF AS UNUSED PRODUCT.

SECTION 14. TRANSPORT INFORMATION

DOT (US) PROPER SHIPPING NAME: UN NUMBER: CLASS: PACKING GROUP: REPORTABLE QUANTITY	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ETHYLENE GLYCOL) 3082 9 III 5000 LBS
(RQ): POISON INHALATION HAZARD:	NO
IMDG	NOT DANGEROUS GOODS
IATA	NOT DANGEROUS GOODS

SECTION 15. REGULATORY INFORMATION

SARA 302 COMPONENTS	NO CHEMICALS IN THIS MA THE REPORTING REQUIREN SECTION 302.	
SARA 313 COMPONENTS	THE FOLLOWING COMPON	ENTS ARE SUBJECT TO
	REPORTING LEVELS ESTAE	BLISHED BY SARA TITLE III,
	SECTION 313:	
	CAS-NO.	REVISION DATE
ETHYLENE GLYCOL	107-21-1	07/01/2007
SARA 311/312 HAZARDS	ACUTE HEALTH HAZARD, O	CHRONIC HEALTH HAZARD
MASSACHUSETTS RIGHT TO KNOW COMPONENTS		
	CAS-NO.	REVISION DATE
ETHYLENE GLYCOL	107-21-1	07/01/2007

PENNSYLVANIA RIGHT TO KNOW COMPONENTS

ETHYLENE GLYCOL	CAS-NO. 107-21-1	REVISION DATE 07/01/2007
CALIFORNIA PROP. 65 COMPONENTS	WARNING: THIS PRODUCT O KNOWN TO THE STATE OF O BIRTH DEFECTS OR OTHER CAS-NO.	CALIFORNIA TO CAUSE
ETHYLENE GLYCOL	107-21-1	06/19/2015

SECTION 16. OTHER INFORMATION

FULL TEXT OF H-STATEMENTS REFERRED TO UNDER SECTIONS 2 AND 3.

ACUTE TOX.	ACUTE TOXICITY
H302	HARMFUL IF SWALLOWED.
H373	MAY CAUSE DAMAGE TO ORGANS THROUGH
	PROLONGED OR REPEATED EXPOSURE IF SWALLOWED.
STOT RE	SPECIFIC TARGET ORGAN TOXICITY - REPEATED
	EXPOSURE

MSDS LEGEND	
MW:	MOLECULAR WEIGHT
MF:	MOLECULAR FORMULA
VOC:	VOLATILE ORGANIC COMPOUNDS
ACGIH:	AMERICAN CONFERENCE OF GOVERNMENENTAL INDUSTRIAL
	HYGINISTS
CAS:	CHEMICAL ABSTRACTS SERIVE REGISTRY NUMBER
OSHA:	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PEL:	PERMISSIBLE EXPOSURE LIMIT (OSHA)
TLV:	THRESHOLD LIMIT VALUE (ACGIH)

IMPORTANT:

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